

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Date: December 8, 2003

ALLEN F. PODELL

Filed : December 8, 2003

For : BI-LEVEL COUPLER

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.56, 1.97, and 1.98**

Applicant is submitting this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98 to disclose to the Patent Office the patents, publications, applications, and/or other references listed on the enclosed, completed PTO-1449 form(s). The filing of this Information Disclosure Statement should not be construed as a representation that a search has been made or as an admission that the listed references are prior art for this application. Applicant respectfully requests that the listed references be expressly considered during prosecution of the application, and that the references be made of record therein and appear among the "references cited" on any patents issuing therefrom.

**CONTENT OF DISCLOSURE**

This Information Disclosure Statement includes (1) two pages of PTO-1449 forms, and (2) a legible copy of each foreign and non-patent reference, if any, listed on

the forms. However, because this application was filed on or after July 1, 2003, no copies of U.S. patents or published U.S. patent applications are included.

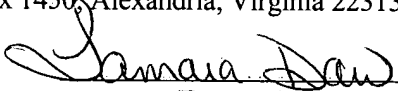
### **TIMING OF DISCLOSURE / FEE INFORMATION**

This Information Disclosure Statement is being filed with the application. Therefore, in accordance with 37 C.F.R. § 1.97(b), no fee or statement under 37 C.F.R. § 1.97(e) is required.

Please contact the undersigned with any questions or comments regarding this Information Disclosure Statement.

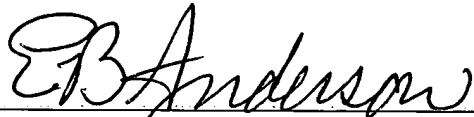
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I hereby certify that the attached correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

  
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Respectfully submitted,

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FORM PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION	DOCKET NUMBER WTE 303	APPLICATION NUMBER n/a
	APPLICANT Allen F. Podell	
	FILING DATE December 8, 2003	GROUP ART UNIT n/a

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	6,518,856	2/11/2003	Casale et al.			
	6,407,648	6/18/2002	Johnson			
	6,020,783	2/1/2000	Coppola			
	6,246,299	6/12/2001	Werlau			
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	4,999,593	3/12/1991	Anderson			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS

	An, Hongming et. al, <i>IA 50:1 Bandwidth Cost-Effective Coupler with Sliced Coaxial Cable</i> , IEEE MTT-S Digest, pp. 789-792, June 1996.
	Walker, J.L.B., <i>Analysis and Design of Kemp-Type 3 dB Quadrature Couplers</i> , IEEE Transactions on Microwave Theory and Techniques, Vol. 38, No. 1, pp. 88-90, January 1990.
	Bickford, Joel D. et. al, <i>Ultra-Broadband High-Directivity Directional Coupler Design</i> , IEEE MTT-S Digest, pp. 595-598, 1988.
	Young, Leo, <i>The analytical equivalence of TEM-mode directional couplers and transmission-line stepped-impedance filters</i> , Proceedings IEEE, Vol. 110, No. 2, pp. 275-281, February 1963.
EXAMINER	DATE CONSIDERED

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
	4,937,541	6/26/1990	Podell et al.			
	4,800,345	1/24/1989	Podell et al.			
	4,777,458	10/11/1988	Pardini			
	4,216,446	8/5/1980	Iwer			
	4,158,184	6/12/1979	Kenyon			
	3,967,220	6/29/1976	Tagashira et al.			
	3,516,024	6/2/1970	Lange			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	

## OTHER DOCUMENTS

		Levy, Ralph, <i>General Synthesis of Asymmetric Multi-Element Coupled-Transmission-Line Directional Couplers</i> , * IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-11, No. 4, pp. 226-237, July 1963.
		Monteath, G.D., <i>Coupled Transmission Lines as Symmetrical Directional Couplers</i> , Proc. IEE, Vol. 102, Part B, No. 3, pp. 383-392, May 1955.
		Oliver, Bernard M., <i>Directional Electromagnetic Couplers</i> , * Proc. IRE, Vol. 42, No. 11, pp. 1686-1692, November 1954.
		Gerst, C.W., <i>11-7 Electrically Short 90° Couplers Utilizing Lumped Capacitors</i> , Syracuse University Research Corporation, pp. 58-62, (year unknown).

EXAMINER	DATE CONSIDERED
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